## AMENDMENTS TO THE CLAIMS

Please cancel claims 35.41 and enter the following amendments:

## 1-21 (Canceled)

- 22. (New) An isolated nucleic acid molecule selected from the group consisting of:
  - (a) an isolated nucleic acid molecule comprising:
    - (i) a nucleic acid sequence encoding a feline p35 subunit protein;
    - (ii) a nucleic acid linker of (XXX), wherein n=0 to 60; and
    - (iii) a nucleic acid sequence encoding a feline p40 subunit protein; and
- (b) an isolated nucleic acid molecule comprising a nucleic acid sequence fully complementary to the nucleic acid molecule set forth in (a).
- 23. (New) The isolated nucleic acid molecule of Claim 22, wherein said isolated nucleic acid molecule is selected from the group consisting of:
- (a) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p35 subunit encoding nucleic acid sequence comprises at least 44 contiguous nucleotides identical in sequence to at least 44 contiguous nucleotides of a nucleic acid sequence selected from the group consisting of SEQ ID NO:32, SEQ ID NO:35 and SEQ ID NO:101; and
- (b) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p40 subunit encoding nucleic acid sequence comprises at least 44 contiguous nucleotides identical in sequence to at least 44 contiguous nucleotides of a nucleic acid sequence selected from the group consisting of SEQ ID NO:26, SEQ ID NO:29 and SEQ ID NO:55.
- 24. (New) The isolated nucleic acid molecule of Claim 22, wherein said isolated nucleic acid molecule is selected from the group consisting of:
- (a) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p35 subunit encoding nucleic acid sequence comprises a nucleotide sequence at least 90% identical to SEQ H2 NO:32, SEQ H2 NO:35 and SEQ H2 NO:101;

- (b) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p40 subunit encoding nucleic acid sequence comprises a nucleotide sequence at least 90% identical to SEQ ID NO:26, SEQ ID NO:29 and SEQ ID NO:55; and
- (c) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said nucleic acid molecule comprises a nucleic acid sequence at least about 90% identical to SEQ ID NO:38 or SEO ID NO:43.
- 25. (Currently amended) The isolated nucleic acid of Claim 24.22, wherein said nucleic acid molecule encodes a protein having a function selected from the group consisting of:
- (a) eliciting an immune response against an IL-12 protein having the amino
  acid sequence of SEQ ID NO:38 or SEQ ID NO:43;
- (b) selectively binding to an antibody raised against an 11-12 protein having the amino acid sequence of SEQ ID NO:38 or SEQ ID NO:43; and
  - (c) exhibiting IL-12 activity.
  - 26. (New) The isolated nucleic acid molecule of Claim 22, wherein said nucleic acid linker comprises SEQ ID NO:83.
  - 27. (New) The isolated nucleic acid molecule of Claim 22, wherein said isolated nucleic acid molecule is selected from the group consisting of:
  - (a) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p35 subunit encoding nucleic acid sequence comprises SEQ ID NO:32, SEQ ID NO:35 or SEQ ID NO:101;
  - (b) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p40 subunit encoding nucleic acid sequence comprises SEQ ID NO:26, SEQ ID NO:29 or SEQ ID NO:55; and
  - (c) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said isolated nucleic acid sequence molecule comprises SBQ ID NO:38 or SEQ ID NO:43.

- 28. (New) The isolated nucleic acid molecule of Claim 22, wherein said isolated nucleic acid molecule is selected from the group consisting of:
- (a) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p35 subunit encoding nucleic acid sequence consists of SEQ ID NO:32, SEQ ID NO:35 or SEQ ID NO:101;
- (b) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p40 subunit encoding nucleic acid sequence consists of SEQ ID NO:26, SEQ ID NO:29 or SEQ ID NO:55; and
- (e) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said isolated nucleic acid sequence molecule has a nucleic acid sequences consisting of SEQ ID NO:38 or SEQ ID NO:43.
  - 29. (New) An isolated nucleic acid molecule selected from the group consisting of:
    - (a) an isolated nucleic acid molecule comprising:
- (i) a first nucleic acid sequence encoding a protein comprising an at least 23 contiguous amino acid region identical in sequence to an at least 23 contiguous amino acid region from SEQ ID NO:33, SEQ ID NO:36 or SEQ ID NO:102;
  - (ii) a nucleic acid linker of (XXX)n wherein n=0 to 60; and
- (iii) a second nucleic acid sequence encoding a protein comprising an at least 23 contiguous amino acid region identical in sequence to an at least 23 contiguous amino acid region from SEQ ID NO:27, SEQ ID NO:30 or SEQ ID NO:56; and
- (b) an isolated nucleic acid molecule comprising a nucleic acid sequence fully complementary to the nucleic acid molecule set forth in (a).
- 30. (New) The isolated nucleic acid molecule of Claim 29, wherein said isolated nucleic acid molecule is selected from the group consisting of:
- (a) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said first nucleic acid sequence encodes a protein comprising an amino acid sequence at least 90% identical to SEQ ID NO:33, SEQ ID NO:36 or SEQ ID NO:102;

- (b) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said second nucleic acid sequence encodes a protein comprising an amino acid sequence at least,90% identical to SEQ ID NO:27, SBQ ID NO:30 or SEQ ID NO:56; and
- (c) an isolated nucleic acid molecule encoding a protein comprising an amino axid sequence at least 90% identical to SEQ ID NO:39 or SEQ ID NO:44.
- 31. (Currently amended) The isolated nucleic acid of Claim 30.29, wherein said nucleic acid molecule encodes a protein having a function selected from the group consisting of:
- (a) cliciting an immune response against an IL-12 protein having the amino acid sequence of SEQ ID NO:27, SEQ ID NO:30 or SEQ ID NO:56;
- (b) selectively binding to an antibody raised against an IL-12 protein having the amino acid sequence of STQ ID NO:27, SEQ ID NO:30 or SEQ ID NO:56; and
  - (c) exhibiting IL-12 activity.
- 32. (New) The isolated nucleic acid molecule of Claim 29, wherein said isolated nucleic acid molecule is selected from the group consisting of:
- (a) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said first nucleic acid sequence encodes an amino acid sequence comprising SEQ ID NO:33/SEQ ID NO:36 or SEQ ID NO: 102;
- (b) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said second nucleic acid sequence encodes an amino acid sequence comprising SEQ ID NO:27, SEQ ID NO:30 or SEQ ID NO: 56; and
- (c) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said isolated nucleic acid sequence encodes a protein comprising SEQ ID NO:39 or SEQ ID NO:44.
- 33. (New) The isolated nucleic acid molecule of Claim 29, wherein said isolated nucleic acid molecule is selected from the group consisting of:
- (a) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said first nucleic acid sequence encodes an amino acid sequence consisting of SEQ ID NO:33, SEQ ID NO:36 or SEQ ID NO: 102:

- (b) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said second nucleic acid sequence encodes an amino acid sequence consisting of SEQ ID NO:27, SEQ ID NO:30 or SEQ ID NO: 56; and
- (c) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said isolated nucleic acid sequence encodes a protein having the sequence of SEQ ID NO:39 or SEQ ID NO:44.
- 34. (New) The isolated nucleic acid molecule of Claim 29, wherein said nucleic acid linker comprises SBQ ID NO:83.

## 35 - 41. (Canceled)

- 42. (New) A recombinant virus comprising a nucleic acid molecule as set forth in claim 22.
- 43. (New) A recombinant cell comprising a nucleic acid molecule as set forth in claim 22.
  - 44. (New) A kit comprising a nucleic acid molecule as set forth in claim 22.
- 45. (New) A recombinant virus comprising a nucleic acid molecule as set forth in claim 29.
- 46. (New) A recombinant cell comprising a nucleic acid molecule as set forth in claim 29.
  - 47. (New) A kit comprising a nucleic acid molecule as set forth in claim 29.